

DESCRIPTIONS OF TWO NEW SPECIES OF *ARADIDÆ*.

BY DR. E. BERGROTH.

ARADUS ORIENTALIS, *n. sp.*

Elongatus, postice nonnihil latitans, opacus, granulatus, luride testaceus, abdomine præsertim subtus in sanguineum vergente; pronoto quadricarinato; angulis posticis segmentorum abdominalium admodum prominentibus. Long., ♀, 9 mm.

Mas ignotus.

Femina: hemelytris abdomine brevioribus et multo angustioribus; segmento quinto ventrali retrorsum acclivi, margine postico medio recto, linea media segmenti lateribus longitudine æquali; segmento sexto retrorsum declivi, sub-quadrato, basi longitudine vix latiore, apicem versus paullo dilatato; angulis posticis paullo productis, præcedenti medio longitudine æquali et segmentis genitalibus simul suntis æquilongo, lobis lateralibus explanatis angulis posticis apicem segmenti genitalis secundi attingentibus et fere superantibus, a lobis genitalibus sat longe distantibus; segmento genitali primo secundo longiore, margine apicali medio parum angulato-inciso, lobis explanatis marginibus interioribus ab apice segmenti genitalis secundi valde divergentibus, marginibus exterioribus nonnihil ante apicem angulato-prominentibus, parte basali cum lobis segmenti sexti ventralis conjunctis.

Patria: Japan (*D. Donitz*). Mus. Berol.

Species insignis, nullæ huc usque descriptæ propius affinis, a ceteris imprimis structura abdominis coloreque divergens. Caput sub-quadratum, latiusculum, longitudine tamen angustius, pone oculos parum angustatum, inter hos foveis duabus postice in lineolas impressas intus sub-curvedas convergentes et angulariter conjunctas transeuntibus præditum; antennis longiusculis articulis duobus ultimis ceteris latioribus, articulo secundo primo fere triplo longiore, cylindrico, articulo tertio secundo paullo brevior, ab apice basin versus sensim leniter attenuato, quarto tertio per paullo longiore, apicem versus leniter angustato; spinis lateralibus extus inter se fere parallelis, denticulo nullo distincto armatis; dente ante-oculari, perminuto; rostro coxas anticas vix superante. Pronotum capite circiter triplo latius, lateribus sub-angulariter perquam ampliatis et reflexis, margine antico-laterali leviter rotundato, minute denticulato, prope apicem leviter sinuato, margine postico-laterali sub-recto, minus reflexo, haud denticulato, sub-integro; angulis posticis retrorsum obtuse latius lobulato-productis; margine postico ante scutellum lenissime trisinuato; disco quadricarinato, carinis duabus intermediis fere parallelis ante medium admodum approximatis, exterioribus apicem versus convergentibus et ante medium pronoti evanescentibus. Scutellum sub-triangular, apice obtuso, lateribus elevatis, ad basin sub-parallelis. Abdomen lateribus admodum reflexum, angulis posticis segmentorum præsertim posteriorum valde prominentibus, ut latera abdominis serrato-incisa evadant; ventre convexo, medio sub-plano. Hemelytra basi nonnihil ampliata et reflexa, margine granulato-crenulato; corio costis dense, interstitiis remote, minute granulato; membrana opaca, sub-rugosa, lurido-testacea, concolore. Pedes, præsertim tibiæ, graciliores, femoribus paullo infuscati.

The ground-colour of the abdomen of this species is, especially on the under-side, light sanguineous, this colour is, however, in some degree concealed by the minute pale granules spread over the surface. The greatest convexity of the venter is between the fifth and sixth segment. The last two articles of the antennæ are, at least in the described specimen, compressed.

ARADUS EMARGINATUS, *n. sp.*

Elongato-subovalis, opacus, fusco-niger, rostro pedibusque flavo-annulatis; pronoto quadricarinato; angulis posticis segmentorum abdominalium prominentibus. Long. ♂, 6.5 mm.

Mas: hemelytris abdomine angustioribus, sed parum brevioribus; segmentis ventralibus quinto et sexto medio cum segmento genitali convexis; segmento genitali ad diuidium apicalem rimæ genitalis anguste luteo, lobis explanatis hujus segmenti admodum reflexis, marginibus interioribus rectis, valde divergentibus, exterioribus sub-angulato-rotundatis, ante apicem denticulis duobus minutissimis armatis; lobis lateralibus segmenti ultimi abdominis a lobis genitalibus distantibus.

Femina ignota.

A. emarginatus, Reut. in sched.

Patria: China (Peking). Coll. Fallou.

Antecedenti abdominis structura similis, sed cetera optime distinctus. Caput pone oculos angustatum, ad basin denticulo minuto lineari utrinque armatum, inter oculos impressione U-formi præditum; antennis nigris, articulo primo brevi, secundo hoc plus quam duplo longiore, sub-cylindrico, apice perpaullo incrassato, tertio secundo paullo longiore, apicem versus parum attenuato (art. quartus deest); processu apicali basin articuli secundi antennarum paullo superante; spinis lateralibus sat validis, acutiusculis, divergentibus, medium articuli primi antennarum superantibus, extus basi obsolete unidenticulatis; dente anteoculari distincto; rostro coxas anticæ aliquantum superante, nigro, articulo penultimo et antepenultimo apice flavido. Pronotum lateribus admodum rotundato-ampliatum et reflexum, marginibus antico-lateralibus subserrato-denticulatis, ante medium angulariter emarginatis et deinde sub-rectis, convergentibus, haud ampliato-reflexis, denticulis fere destitutis; disco quadricarinato, carinis intermediis sub-parallelis, mox ante medium approximatis, carinis externis brevibus, medium pronoti haud superantibus; angulis posticis retrorsum obtuse productis, deflexis. Scutellum elongatulum, lateribus elevatis, extrorsum levissime rotundatis, basin versus sub-parallelis. Abdomen sub-ovatum, depressum, lateribus ob angulos posticos segmentorum abdominalium præsertim posteriorum admodum prominentes sub-serrato-emarginatis. Hemelytra basi ultra marginem abdominis paullo ampliata ibique macula parva lutea (subtus quoque distincta) ornata; corio area interna lineolis nonnullis luteis prædita; membrana obsolete sub-cinereo-interstincta. Pedes fusconigri, femoribus basi tibiisque prope basin et apicem flavotestaceo-annulatis (annulo sub-basali tibiæ ægrius distinguendo), geniculis anguste tarsisque flavopiceis.

The discovery of these two species is of some interest, as no species of the genus *Aradus* was hitherto known either from Japan or China.

Besides *A. orientalis*, there is another Japanese species amongst the *Aradidæ* of the Berlin Museum, viz., *Mezira scabrosa*, Scott, which belongs to the genus *Brachyrhynchus*, Am. et Serv. Of the genus *Mezira* I shall give more account in another place.

I take this opportunity of mentioning that I am preparing a revision of the genus *Neuroctenus*, Fieb., and shall be glad to receive contributions.

Helsingfors: April 7th, 1885.

DESCRIPTION OF *COLEOPHORA PALUDICOLA*—A SPECIES NEW
TO SCIENCE.

BY H. T. STANTON, F.R.S.

COLEOPHORA PALUDICOLA, *n. sp.*

Exp. al. 4 lin.

Fore-wings uniform dark greyish-brown, shining, with the costa narrowly whitish to a little beyond the middle; no other markings are visible.

Antennæ dark grey, faintly annulated with whitish.

Head and thorax shining dark greyish-brown, same as the fore-wings.

This is smaller than *Coleophora obtusella*, and of much darker ground colour, and it wants the pale streaks of that species. In size and colour it comes nearer to the German *C. musculella*, which feeds on *Dianthus superbus*, but that has several neat pale streaks on the fore-wings, which are besides much more acuminate than in *C. paludicola*. Small specimens of *C. badiipennella* come very near to this new species in size, but they have not the pale costa so narrow, nor so sharply defined; moreover, in them the fore-wings are very much browner.

Five specimens were captured by Mr. G. Coverdale in salt-marshes near Shoeburyness in July, 1884, who says:—"It occurs flying with *Coleophora salinella* amongst the mixed herbage of the Salterns. I have taken the insect at rest on *Suæda maritima*, *Artemisia maritima*, *Atriplex*, and should be inclined to regard *Suæda maritima* as the most likely food plant. It is not common, for three days' work produced but five specimens."

Mr. Coverdale thinks the fore-wings have a bronzy-green tinge, but I cannot see the insect in that light myself.

Lewisham, London:

May 19th, 1885.